

In the Specification:

Delete paragraph [0012] from the application as published, and substitute therefor the following:

Further features of the invention will be more readily apparent from the following detailed description, which proceeds with reference to the accompanying drawings.

BRIEF DESCRIPTION OF THE DRAWINGS

Figs. 1-9 are flowcharts illustrating aspects of various embodiments of the detailed technology.

Fig. 10 shows how embodiments of the detailed technology can identify areas of image tampering.

Rewrite paragraph [0090] as follows:

Invariance- the hash of the image before and after embedding should be the same.

In one implementation, the embedder divides the image into blocks, then partitions each block into regions (namely, region I and region II). One example partitioning is to separate the most significant bits from the least significant bits (e.g., for an 8 bit per pixel image, region I comprises the 7 most significant bits and region II comprises the least significant bit). Next, it compresses region I of each block to compute a hash for that block. In particular, it performs a JPEG 2000 compression of region I. It then embeds the compressed bit stream of region I of a block (a source block) into region II of one or more different blocks (the target block(s)). This process is repeated for each block such that each block carries the compressed bit stream of one or more other blocks.

After paragraph [0148] but before the heading "Concluding Remarks," insert the following new paragraph:

Aspects of the foregoing embodiments are illustrated by the flowcharts of Figs. 1-9. Fig 10 is a conceptual illustration showing how regions of tampering in an image (shown in white) can be identified, using the foregoing methods.